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REPORT
CD NO.

COUNTRY	USSR	DATE OF INFORMATION	1950
SUBJECT	Scientific - Chemistry, emulsions	DATE DIST.	/ Aug 1950
HOW PUBLISHED	Bimonthly periodical		
WHERE PUBLISHED	USSR	NO. OF PAGES	1
DATE PUBLISHED	Mar/Apr 1950	SUPPLEMENT TO REPORT NO.	
LANGUAGE	Russian		

THIS IS UNEVALUATED INFORMATION

SOURCE Kolloidnyy Zhurnal, Vol XII, No 2, 1950.

COMBINED STABILIZING AGENTS FOR EMULSIONS

B. A. Rashkovan
Kirgiz State Med Inst
Frunze

/A Digest/

The author concluded from his study that:

1. The addition of small quantities of typical surface active substances to generally used stabilizers for emulsions not only does not result in the breakdown of the emulsions but, on the contrary, increases their dispersion and stability.

2. The dispersion of the emulsions thus formed depends on the nature of the surface active material added as well as its relative amount.

3. The addition of surface active substances contributes to the gelation of water-oil emulsions formed from cottonseed oil and a concentrated caustic aldali solution.

4. Multistage emulsions are formed in the presence of benzaldehyde and, especially, formaldelyde.

Miscrophotographs were made of a water-oil emulsion not containing surface active agents of this emulsion if the presence of 0.12 percent and 0.6 percent ethyl alcohol; in the presence of 0.13 percent and 0.6 percent isoamyl alcohol; in the presence of 0.2 percent phenol; in the presence of 0.26 percent naphthol; in the presence of 0.5 percent benzaldehyde; and in the presence of 0.1 percent formaldehyde.

These showed that the larger quantities of the alcohols in each case increase the degree of dispersion but tend to produce deemulsification. The rapidity of dispersion is increased with naphthol. Because the dispersion was comparatively rapid in all cases, the photographs were taken no more than 5 minutes after the emulsion was formed.

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